APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,425	12/18/2001	Kyung Sam Seo	HI-0067	6323

34610 7590 12/12/2005		EXAMINER
FLESHNER & KIM, LLP		CORRIELUS, JEAN B
P.O. BOX 221200		

ART UNIT	PAPER NUMBER
2637	

FLESHNER & KIM, LLP
P.O. BOX 221200
CHANTILLY, VA 20153

DATE MAILED: 12/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/017,425	SEO ET AL.
		Examiner	Art Unit
		Jean B. Corrielus	2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>2</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>02 November 2005</u>.

2a)☐ This action is **FINAL**.   2b)☐ This action is non-final.

3)☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
    closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-23</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) <u>1-23</u> is/are allowed.

6)☐ Claim(s) _____ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
         application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Response to Arguments

1.   The objection of claims 1-23, made in the last office action, has been withdrawn.

However upon further consideration, claims 1-23 are still objected to for the reasons set

forth below.

Claim Objections

2.   Claims 1- 23 are objected to because of the following informalities:

As per claim 1, line 4, after "station", "to generate a detected I channel signal and

a Q channel signal" should be inserted so as to provide antecedent basis for

subsequent recitation in line 5 and line 8; line 5, "signal" should be replaced by "I and Q

channel signals" so as to be consistent with subsequent recitation in line 8; line 6,

shouldn't "section" be deleted before "in a"; line 6, recites "in **a corresponding**

section", what section does such limitation refer to? line 7, "section" should be deleted;

lines 5-7 should be amended to introduce the subsequent recitation of "coherently

accumulated I and Q channel signals" recited in line 8; line 10, shouldn't "section" be

deleted; line 11, "section" should be deleted; line 12, "the" should be inserted before

"variable"; line 13, "saving" should be replaced by "storing"; line 14, "saved" should be

replaced by "stored"; line 14, after "threshold, "to generate a comparison result" to

provide antecedent for the subsequent recitation in line 16; line 16, "a" should be

replaced by "said".

As per claim 2, shouldn't "section" be deleted after "information"; line 3, "control" should be deleted before "information" or "control" should be inserted in claim 1 before the same for consistency; line 3, shouldn't "section" be deleted after "information"; line 4, what does it mean by "information unit"? line 4, shouldn't "section" be deleted after "information"; line 4, "a" should be inserted before "different"; line 5, "weights from each other" should be replaced by "weight".

As per claim 3, line 3, shouldn't "section" be deleted after "information"; line 3, what does it mean by "variable section"? line 4, as per the recitation "another information section" see claim 2.

As per claim 5, line 2, shouldn't "section" be deleted after "information"; line 2, "specific" should be deleted; line 4, "specific" should be deleted.

As per claim 6, "the first" should be "a first"; line 2 and line 3, "section" should be replaced by "information"; line 2, "the second" should be replaced by "a second.

As per claim 7, line 3, as per the limitation "control information" see claim 2; as per line 4, on what noncoherent accumulation is conducted? line 4, what is stored in "the search result storage"?

As per claim 8, line 5, "saving" should be replaced by "storing"; line 5, "every" should be deleted; line 6 recites "the outputs" however, line 5 does not recite that the buffer generates multiple "outputs"; line 7, "by" should be replaced by "based on"; as per lines 9-10, for the limitations "section" see claim 1; line 9, "another" should be deleted; as per line 12, after signal, "from the coherent accumulator" should be inserted; line 13, shouldn't "a pilot section" be replaced by "the pilot information"? line 13, "another"

should be deleted; line 14, "section" should be deleted; line 19, "a control" should be replaced by "said scramble control".

As per claim 9, line 2, and line 4, shouldn't "section" be deleted? in addition, the limitation "the pilot information of the DPCCH to the pilot information" is awkward; line 3, "another" should be deleted; line 4, "section" should be deleted; line 4, what does it mean by "information unit".

As per claim 11, lines 2-3, "section in a variable section of the number of pilot symbols information" should be deleted; line 4, "another" should be replaced by "control".

As per claim 12, line 2 and 4, "specific" should be deleted; line 2 and line 3, "section" should be deleted; line 3, "another" should be replaced by "control".

As per claim 13, line 2 and 3, "section" should be replaced by "information"; line 2, "another" should be replaced by "control".

As per claim 14, line 4, "to generate decimated I and decimated Q channel signals" should be inserted after "station" so as to provide proper antecedent basis for subsequent recitation in the claim; line 5, "decimated I and decimated Q" should be inserted before "channel"; line 7, "to generate multiplied outputs" should be inserted so as to provide antecedent basis for subsequent recitation in line 8; line 9, "signal" should be "signals"; line 10, "code" should be replaced by "channel signal".

As per claim 15, line 1, "weight" should be "weights"; line 2, after DPCH", shouldn't "of" be replaced by "and"? The same comment applies to line 4.

As per claim 17, "the DPCH and" should be inserted before "the DPDCH" and "

and the DPCH " should be inserted after "the DPDCH" so as to consistent with claim 15

or the same be deleted in claim 15?

As per claim 18, line 7, "saved" should be replaced by "stored"; line 8, "under the

direction of a scrambling code signal" should be deleted; line 8, "by" should be replaced

by "based on"; line 9, after "signal", "to generate a despread output" should be inserted

so as to provide antecedent basis to subsequent recitation in line 11; line 12, the"

should be "a"; line 16, does the limitation "the output" refer to the output of the

despreader if so, "of the despreader" should be inserted after output; line 19, "first

channel" should be replaced by "calculated" so as to be consistent with recitation in line

16; line 25, "saved" should be replaced by "stored"; line 25, shouldn't "storing" be

replaced by "retrieving"; line 25, "energy values" should be replaced by "total value" so

as to be consistent with recitation in line 23; line 26, "search" should be replaced by

"total" so as to be consistent with recitation in line 23; line 26, "energy" should be

replaced by "total" so as to be consistent with recitation in line 23.

As per claim 19, line 3, "accumulator" should be replaced by

"accumulators".

As per claim 20, line 3, "signals" should be replaced by "output" so as to be

consistent with antecedent in claim 18; line 3, before "by", "generated" should be

inserted; line 4, "signal" should be replaced by "despread output"; line 4, please expand

"OVSF"; line 4, "code" should be deleted; line 7, "the" should be replaced by "a"; line 8,

"generated by the first and second coherent accumulators" should be inserted after "signal".

As per claim 21, line 2, "has" should be replaced by "generates"; line 3, "sum" should replaced by "the sum".

As per claim 23, line 4, "another" should be replaced by "a".

Note that any claim whose base claim is objected is likewise objected. In addition, the above claim amendment is required in order to improve claim language.

Conclusion

1.   This application is in condition for allowance except for the formal matters noted above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

2.   Claims 1-23 would be allowable if amended to overcome the objection set forth

above.

Response to Arguments

3.   Applicant's arguments, see pages 27 and 28 of the response, filed on 6/9/05,

with respect to the claim rejection and/or objection have been fully considered and are

persuasive. The claim objection and/or rejection has been withdrawn.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-

3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Jean B Corrielus
Primary Examiner
Art Unit 2637 12-9-05